

IN THE CLAIMS:

Please amend claims 1, 2, 14, 15, 17, 18, 21, 22, 26 and 29-31 as follows.

1. (Currently Amended) A method, ~~for performing an address update in a communication system, the method comprising:~~

indicating that an ~~address update~~a correspondent registration process needs to be performed, wherein the correspondent registration process includes transmitting a binding update to a correspondent node of a mobile node,

wherein the binding update includes location-related information about a~~the~~ mobile node ~~is transmitted to a correspondent node of the mobile node if the address update process is performed~~ and wherein the location-related information enables one of the correspondent node, or a third party to determine a geographic location of the mobile node within a certain accuracy;

authenticating the correspondent node in response to the indicating, the authenticating yielding identity information about the correspondent node;

determining whether the correspondent registration ~~address update~~ process is to be carried out, based on the identity information; and

performing the correspondent registration ~~address update~~ process when the determining indicates that the correspondent registration ~~address update~~ process is to be carried out and omitting the correspondent registration ~~address update~~ process when the

determining indicates that the correspondent registration ~~address update~~ process is not to be carried out.

2. (Currently Amended) A method according to claim 1, wherein the performing performs the ~~address update~~correspondent registration process for optimizing routing between the mobile node and the correspondent node.

3. (Previously Presented) A method according to claim 1, further comprising storing security policy data in the mobile node, the security policy data indicating a set of trusted parties.

4. (Previously Presented) A method according to claim 3, wherein the determining comprises comparing the identity information with the security policy data stored in the mobile node.

5. (Previously Presented) A method according to claim 4, wherein the performing is carried out in response to the comparing when the comparing indicates that the correspondent node belongs to the set of trusted parties.

6. (Previously Presented) A method according to claim 4, wherein the determining comprises prompting a user of the mobile node to make a decision when the comparing

indicates that the correspondent node fails to belong to the set of trusted parties, wherein the prompting comprises informing the user about the identity information.

7. (Currently Amended) A method according to claim 1, wherein the indicating comprises indicating that the ~~address update~~ correspondent registration process comprises ~~a the binding update process~~ according to a Mobile IP protocol.

8. (Previously Presented) A method according to claim 7, wherein the indicating is performed in response to a predetermined event.

9. (Previously Presented) A method according to claim 8, wherein the indicating comprises responding to the predetermined event comprising reception of a packet routed via a home agent of the mobile node.

10. (Previously Presented) A method according to claim 8, wherein the indicating comprises responding to the predetermined event comprising reception of a new address for the mobile node.

11. (Previously Presented) A method according to claim 3, wherein the storing comprises storing the security policy data comprising high-level identifiers of trusted correspondent nodes.

12. (Previously Presented) A method according to claim 3, wherein the storing comprises storing the security policy data comprising rules for deciding whether the identity information represents a trusted correspondent node.

13. (Previously Presented) A method according to claim 1, wherein the authenticating comprises authenticating the correspondent node by means of a certificate-based authentication protocol.

14. (Currently Amended) A method according to claim 13, wherein the authenticating comprises authenticating by means of the certificate-based authentication protocol comprising an ~~I~~nternet ~~K~~ey ~~E~~xchange protocol.

15. (Currently Amended) A method according to claim 13, wherein the authenticating comprises authenticating by means of the certificate-based authentication protocol comprising a ~~T~~ransport ~~L~~ayer ~~S~~ecurity protocol.

16. (Previously Presented) A method according to claim 1, wherein the authenticating comprises authenticating by means of the authenticating comprising certifying the identity information cryptographically.

17. (Currently Amended) A mobile node, ~~for a communication system, the mobile node comprising:~~

indicator unit configured to give an indication when ~~an address update~~
correspondent registration process needs to be performed,

a binding unit configured to transmit a binding update to a correspondent node,
wherein the binding update includes location-related information about a mobile node
~~being notified and~~

wherein the location-related information enables one of the correspondent node, or
a third party to determine a geographic location of the mobile node within a certain
accuracy,~~to a correspondent node of the mobile node if the address update process is~~
performed;

authentication unit configured to authenticate the correspondent node, the
authentication unit being responsive to the indicator unit and configured to yield identity
information about the correspondent node;

~~determination~~location privacy decision unit, responsive to the authentication
~~means~~unit, configured to determine whether the correspondent registration address
~~update process~~ is to be performed; and

correspondent registration address update~~unit~~, responsive to the ~~determination~~
location privacy decision unit, configured to carry out the correspondent registration
~~address update process.~~

18. (Currently Amended) A mobile node according to claim 17, ~~further comprising~~wherein the binding unit is further configured to maintain a binding, the binding being an association of a home address of the mobile node with a care-of address of the mobile node,

wherein the correspondent node is informed of the binding when the ~~address update~~correspondent registration process is performed.

19. (Previously Presented) A mobile node according to claim 17, wherein authentication unit comprises a certificate-based authentication protocol.

20. (Previously Presented) A mobile node according to claim 17, wherein the authentication unit comprises a domain name system-based protocol for obtaining the identity information.

21. (Currently Amended) A mobile node according to claim 17, wherein the ~~determination~~location privacy decision unit comprises a security policy database, the ~~determination~~location privacy decision unit being configured to determine, by the security policy database, whether the ~~address update~~correspondent registration unit can be activated without consulting a user of the mobile node.

22. (Currently Amended) A mobile node according to claim 21, wherein the ~~determination~~location privacy decision unit further ~~comprise~~comprises user interaction unit configured to prompt the user to make a decision on whether the address ~~update~~correspondent registration process is to be performed.

23. (Previously Presented) A mobile node according to claim 22, wherein the user interaction unit is configured to indicate the identity information to the user, the identity information comprising a high-level identifier of the correspondent node.

24. (Original) A mobile node according to claim 21, wherein the security policy database comprises identifiers of trusted correspondent nodes.

25. (Original) A mobile node according to claim 21, wherein the security policy database comprises rules for determining whether a given identifier represents a trusted correspondent node.

26. (Currently Amended) A system, ~~for performing address updates in a communication system~~ comprising:

indicator means for giving an indication when an address ~~update~~a correspondent registration process needs to be performed, location-related information about a mobile

node being notified to a correspondent node of the mobile node if the ~~address~~
~~update~~correspondent registration process is performed;

a binding means for transmitting a binding update to the correspondent node,
wherein the binding update includes location-related information about the mobile node,
and

wherein the location-related information enables one of the correspondent node, or
a third party to determine a geographic location of the mobile node within a certain
accuracy.

authentication means for authenticating the correspondent node, the authentication
means being responsive to the indicator means and yielding identity information about
the correspondent node;

~~determination~~location privacy decision means, responsive to the authentication
means, for determining, based on the identity information, whether the ~~address~~
~~update~~correspondent registration process is to be performed; and

~~address-update~~correspondent registration means, responsive to the ~~determination~~
location privacy decision means, for carrying out the ~~address-update~~correspondent
registration process.

27. (Original) A system according to claim 26, wherein the authentication means
are located in the mobile node.

28. (Original) A system according to claim 26, wherein the authentication means are located in a home agent of the mobile node.

29. (Currently Amended) A system according to claim 26, wherein the ~~address update~~correspondent registration means are located in a home agent of the mobile node.

30. (Currently Amended) A system according to claim 28, wherein the ~~determination~~location privacy decision means are located in the home agent of the mobile node.

31. (Currently Amended) An apparatus ~~for performing address updates in a communication system~~, comprising:

indicator means for giving an indication when an ~~address update~~a correspondent registration process needs to be performed, location-related information about a mobile node being notified to a correspondent node of the mobile node if the address update process is performed;

a binding means for transmitting a binding update to the correspondent node,
wherein the binding update includes the location-related information about the mobile node, and

wherein the location-related information enables one of the correspondent node, or a third party to determine a geographic location of the mobile node within a certain accuracy,

authentication means for authenticating the correspondent node, the authentication means being responsive to the indicator means and yielding identity information about the correspondent node;

~~determination~~-location privacy decision means, responsive to the authentication means, for determining whether the ~~address-update~~correspondent registration process is to be performed; and

address update means, responsive to the ~~determination~~-location privacy decision means, for carrying out the ~~address-update~~correspondent registration process.